

Ashley J Wooles

List of Publications by Year in descending order

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79
papers

2,351
citations

186209

28
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243529

44
g-index

81
all docs

81
docs citations

81
times ranked

1303
citing authors

#	ARTICLE	IF	CITATIONS
1	Early metal bis(phosphorus-stabilised)carbene chemistry. <i>Chemical Society Reviews</i> , 2011, 40, 2164.	18.7	153
2	Catalytic Dinitrogen Reduction to Ammonia at a Triamidoamine-Titanium Complex. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6314-6318.	7.2	113
3	Lanthanide tri-benzyl complexes: structural variations and useful precursors to phosphorus-stabilised lanthanide carbenes. <i>Dalton Transactions</i> , 2010, 39, 500-510.	1.6	100
4	Thorium-phosphorus triamidoamine complexes containing Th-P single- and multiple-bond interactions. <i>Nature Communications</i> , 2016, 7, 12884.	5.8	87
5	Molecular and electronic structure of terminal and alkali metal-capped uranium(V) nitride complexes. <i>Nature Communications</i> , 2016, 7, 13773.	5.8	82
6	Heteroleptic [M(CH ₂ C ₆ H ₅) ₂ (I)(THF) ₃] Complexes (M = Y or Er): Remarkably Stable Precursors to Yttrium and Erbium T-Shaped Carbenes. <i>Organometallics</i> , 2009, 28, 6771-6776.	1.1	64
7	Crystalline Diuranium Phosphinidide and $\frac{1}{4}$ -Phosphido Complexes with Symmetric and Asymmetric UPU Cores. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10495-10500.	7.2	62
8	A Monomeric Dithio Methanide with a Distorted <i>trans</i> -Planar Four-Coordinate Carbon. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5570-5573.	7.2	59
9	A Very Short Uranium(IV)-Rhodium(I) Bond with Net Double-Dative Bonding Character. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6587-6591.	7.2	53
10	Actinide-Pnictide (An~Pn) Bonds Spanning Non-Metal, Metalloid, and Metal Combinations (An=U, Th; Tj ETQ 0 0 0 rgBT/Overlock	7.2	53
11	A crystalline tri-thorium cluster with f-aromatic metal-metal bonding. <i>Nature</i> , 2021, 598, 72-75.	13.7	52
12	Synthesis and Characterization of Dysprosium and Lanthanum Bis(iminophosphorano)methanide and -methanediide Complexes. <i>Organometallics</i> , 2010, 29, 2315-2321.	1.1	51
13	Isolation of Elusive HAsAsH in a Crystalline Diuranium(IV) Complex. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15250-15254.	7.2	50
14	Triamidoamine thorium-arsenic complexes with parent arsenide, arsinidide and arsenido structural motifs. <i>Nature Communications</i> , 2017, 8, 14769.	5.8	50
15	Emergence of the structure-directing role of f-orbital overlap-driven covalency. <i>Nature Communications</i> , 2019, 10, 634.	5.8	50
16	Back-bonding between an electron-poor, high-oxidation-state metal and poor π -acceptor ligand in a uranium(v)-dinitrogen complex. <i>Nature Chemistry</i> , 2019, 11, 806-811.	6.6	47
17	Bis(phosphorus-stabilised)methanide and methanide derivatives of group 1Ó5 and f-element metals. <i>Organometallic Chemistry</i> , 0, , 29-55.	0.6	47
18	Terminal uranium(V)-nitride hydrogenations involving direct addition or Frustrated Lewis Pair mechanisms. <i>Nature Communications</i> , 2020, 11, 337.	5.8	45

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19	Covalent Uranium Carbene Chemistry. Comments on Inorganic Chemistry, 2015, 35, 262-294.	3.0	44
20	Silyl-Phosphino-Carbene Complexes of Uranium(IV). Angewandte Chemie - International Edition, 2018, 57, 5506-5511.	7.2	43
21	Uranium(III)-carbon multiple bonding supported by arene π -bonding in mixed-valence hexauranium nanometre-scale rings. Nature Communications, 2018, 9, 2097.	5.8	43
22	Assessing crystal field and magnetic interactions in diuranium- $\frac{1}{4}$ -chalcogenide triamidoamine complexes with U ^{IV} \rightarrow U ^{IV} cores (E = S, Se, Te): implications for determining the presence or absence of actinide \rightarrow actinide magnetic exchange. Chemical Science, 2017, 8, 6207-6217.	3.7	42
23	Bimetallic Cooperative Cleavage of Dinitrogen to Nitride and Tandem Frustrated Lewis Pair Hydrogenation to Ammonia. Angewandte Chemie - International Edition, 2019, 58, 6674-6677.	7.2	42
24	Thorium- and uranium-azide reductions: a transient dithorium-nitride <i>versus</i> isolable diuranium-nitrides. Chemical Science, 2019, 10, 3738-3745.	3.7	42
25	Rare-Earth and Uranium-Mesoionic Carbenes: A New Class of σ -Block Carbene Complex Derived from an N-Heterocyclic Olefin. Angewandte Chemie - International Edition, 2017, 56, 11534-11538.	7.2	39
26	Uranium-Carbene-Imido Metalla-Allenenes: Ancillary-Ligand-Controlled <i>cis</i> / <i>trans</i> -Isomerisation and Assessment of <i>trans</i> Influence in the R ₂ C=U ^{IV} =NR ² Unit (R=Ph ₂ PNSiMe ₃); Tj ETQqO 0 0 rgBT /Overlock 10 Tf 50 452	1.7	37
27	Terminal Parent Phosphanide and Phosphinidene Complexes of Zirconium(IV). Angewandte Chemie - International Edition, 2017, 56, 7669-7673.	7.2	33
28	Evidence for single metal two electron oxidative addition and reductive elimination at uranium. Nature Communications, 2017, 8, 1898.	5.8	32
29	Actinide-transition metal bonding in heterobimetallic uranium and thorium-molybdenum paddlewheel complexes. Chemical Communications, 2018, 54, 13515-13518.	2.2	32
30	Element Half-Sandwich Complexes: A Tetrasilylcyclobutadienyl-Uranium(IV)-Tris(tetrahydroborate) Anion Pianostool Complex. Angewandte Chemie - International Edition, 2020, 59, 295-299.	7.2	30
31	Thorium-nitrogen multiple bonds provide evidence for pushing-from-below for early actinides. Nature Communications, 2019, 10, 4203.	5.8	29
32	β -Diketiminato Derivatives of Alkali Metals and Uranium. Organometallics, 2013, 32, 5058-5070.	1.1	27
33	Comments on reactions of oxide derivatives of uranium with hexachloropropene to give UCl ₄ . New Journal of Chemistry, 2015, 39, 7559-7562.	1.4	26
34	Neptunium and plutonium complexes with a sterically encumbered triamidoamine (TREN) scaffold. Chemical Communications, 2016, 52, 5428-5431.	2.2	26
35	Catalytic Dinitrogen Reduction to Ammonia at a Triamidoamine-Titanium Complex. Angewandte Chemie, 2018, 130, 6422-6426.	1.6	26
36	Nature of the Arsonium-ylide Ph ₃ As=CH ₂ and a Uranium(IV) Arsonium-Carbene Complex. Angewandte Chemie - International Edition, 2020, 59, 15870-15874.	7.2	25

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37	Trapping of a Highly Bent and Reduced Form of σ -Phosphaethynolate in a Mixed-Valence Diuranium-Triamidoamine Complex. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10215-10219.	7.2	24
38	Group 1 Bis(iminophosphorano)methanides, Part 1: <i>N</i> -Alkyl and Silyl Derivatives of the Sterically Demanding Methanes $H_2C(PPh_2)NR_2$ (R = Adamantyl and TjETQqO O rgBII/Overloz 10 Tf 50		
39	Heterogeneous catalysts for the controlled ring-opening polymerisation of <i>rac</i> -lactide and homogeneous silsesquioxane model complexes. <i>Dalton Transactions</i> , 2008, , 3655.	1.6	22
40	Group 1 Bis(iminophosphorano)methanides, Part 2: <i>N</i> -Aryl Derivatives of the Sterically Demanding Methanes $H_2C(PPh_2)NR_2$ (R = 2,4,6-trimethylphenyl or 2,6-diisopropylphenyl). <i>Organometallics</i> , 2011, 30, 5326-5337.	1.1	22
41	Anomalous magnetism of uranium(IV)-oxo and -imido complexes reveals unusual doubly degenerate electronic ground states. <i>CheM</i> , 2021, 7, 1666-1680.	5.8	22
42	Crystalline Diuranium Phosphinidide and $\frac{1}{4}$ -Phosphido Complexes with Symmetric and Asymmetric UPU Cores. <i>Angewandte Chemie</i> , 2017, 129, 10631-10636.	1.6	21
43	A Very Short Uranium(IV)-Rhodium(I) Bond with Net Double-Bond Character. <i>Angewandte Chemie</i> , 2018, 130, 6697-6701.	1.6	19
44	A terminal neptunium(V)-mono(oxo) complex. <i>Nature Chemistry</i> , 2022, 14, 342-349.	6.6	19
45	Synthesis and Characterisation of Lanthanide <i>N</i> -Trimethylsilyl and -Mesityl Functionalised Bis(iminophosphorano)methanides and -Methanediides. <i>Inorganics</i> , 2013, 1, 46-69.	1.2	18
46	Photolytic and Reductive Activations of σ -Phosphaethynolate in a Uranium-Triamidoamine Complex: Decarbonylative Arsenic-Group Transfer Reactions and Trapping of a Highly Bent and Reduced Form. <i>Chemistry - A European Journal</i> , 2019, 25, 14246-14252.	1.7	18
47	Dipnictogen f-Element Chemistry: A Diphosphorus Uranium Complex. <i>Journal of the American Chemical Society</i> , 2021, 143, 5343-5348.	6.6	18
48	Yttrium Methanide and Methanediide Bis(silyl)amide Complexes. <i>Organometallics</i> , 2017, 36, 4584-4590.	1.1	17
49	Insights into D_{4h} -metal-symmetry single-molecule magnetism: the case of a dysprosium-bis(boryloxide) complex. <i>Chemical Communications</i> , 2021, 57, 733-736.	2.2	17
50	Isolation of Elusive HASAsH in a Crystalline Diuranium(IV) Complex. <i>Angewandte Chemie</i> , 2015, 127, 15465-15469.	1.6	16
51	Synthesis and characterisation of halide, separated ion pair, and hydride cyclopentadienyl iron bis(diphenylphosphino)ethane derivatives. <i>Dalton Transactions</i> , 2015, 44, 14159-14177.	1.6	15
52	Heteroleptic actinocenes: a thorium(IV)-cyclobutadienyl-cyclooctatetraenyl-di-potassium-cyclooctatetraenyl complex. <i>Chemical Science</i> , 2020, 11, 6789-6794.	3.7	14
53	Uranyl-tri- <i>bis</i> (silyl)amide Alkali Metal Contact and Separated Ion Pair Complexes. <i>Inorganic Chemistry</i> , 2018, 57, 6571-6583.	1.9	13
54	Evidence for ligand- and solvent-induced disproportionation of uranium(IV). <i>Nature Communications</i> , 2021, 12, 4832.	5.8	13

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55	Actinide–Pnictide (An–Pn) Bonds Spanning Non–Metal, Metalloid, and Metal Combinations (An=U, Th; Tj ETQq.1 1 0.784314 rgB	1.6	11
56	Polarised covalent thorium(IV) and uranium(IV)–silicon bonds. Chemical Communications, 2020, 56, 12620-12623.	2.2	11
57	Synthesis and Characterization of an Oxo-Centered Homotrimetallic Uranium(IV)–Cyclobutadienyl Dianion Complex. Organometallics, 2020, 39, 1824-1831.	1.1	11
58	²⁹ Si NMR Spectroscopy as a Probe of s- and f-Block Metal(II)–Silanide Bond Covalency. Journal of the American Chemical Society, 2021, 143, 9813-9824.	6.6	11
59	Silyl–Phosphino–Carbene Complexes of Uranium(IV). Angewandte Chemie, 2018, 130, 5604-5609.	1.6	10
60	The “Hidden” Reductive [2+2+1] Cycloaddition Chemistry of 2–Phosphaethynolate Revealed by Reduction of a Th–OCP Linkage. Angewandte Chemie - International Edition, 2021, 60, 1197-1202.	7.2	10
61	Terminal Parent Phosphanide and Phosphinidene Complexes of Zirconium(IV). Angewandte Chemie, 2017, 129, 7777-7781.	1.6	9
62	Rare–Earth and Uranium–Mesoionic Carbenes: A New Class of f–Block Carbene Complex Derived from an N–Heterocyclic Olefin. Angewandte Chemie, 2017, 129, 11692-11696.	1.6	9
63	Thorium(IV) alkyl synthesis from a thorium(III) cyclopentadienyl complex and an N-heterocyclic olefin. Journal of Organometallic Chemistry, 2018, 857, 75-79.	0.8	9
64	Reply to: [Th(C8H8)Cl2]3 ²⁺ is stable but not aromatic. Nature, 2022, 603, E21-E22.	13.7	9
65	Preparation of Heterobimetallic Ketimido-Actinide-Molybdenum Complexes. Inorganic Chemistry, 2019, 58, 13077-13089.	1.9	8
66	f–Element Half–Sandwich Complexes: A Tetrasilylcyclobutadienyl–Uranium(IV)–Tris(tetrahydroborate) Anion Pianostool Complex. Angewandte Chemie, 2020, 132, 301-305.	1.6	8
67	Nature of the Arsonium–Ylide Ph ₃ As=CH ₂ and a Uranium(IV) Arsonium–Carbene Complex. Angewandte Chemie, 2020, 132, 16004-16008.	1.6	8
68	Synthesis and Characterisation of Molecular Polarised-Covalent Thorium-Rhenium and -Ruthenium Bonds. Inorganics, 2021, 9, 30.	1.2	8
69	Trapping of a Highly Bent and Reduced Form of 2–Phosphaethynolate in a Mixed–Valence Diuranium–Triamidoamine Complex. Angewandte Chemie, 2019, 131, 10321-10325.	1.6	7
70	Bridged and Unbridged Nickel–Nickel Bonds Supported by Cyclopentadienyl and Phosphine Ligand Sets. Organometallics, 2020, 39, 4735-4746.	1.1	7
71	A Uranium(VI)–Oxo-Imido Dimer Complex Derived from a Sterically Demanding Triamidoamine. Inorganic Chemistry, 2020, 59, 10034-10041.	1.9	7
72	Carbene Complexes of Neptunium. Journal of the American Chemical Society, 2022, 144, 9764-9774.	6.6	7

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73	Bimetallic Cooperative Cleavage of Dinitrogen to Nitride and Tandem Frustrated Lewis Pair Hydrogenation to Ammonia. <i>Angewandte Chemie</i> , 2019, 131, 6746-6749.	1.6	6
74	Fragmentation, catenation, and direct functionalisation of white phosphorus by a uranium(^{IV})-silylphosphino-carbene complex. <i>Chemical Communications</i> , 2021, 57, 5090-5093.	2.2	5
75	Uranium-nitride chemistry: uranium-uranium electronic communication mediated by nitride bridges. <i>Dalton Transactions</i> , 2022, 51, 8855-8864.	1.6	4
76	The ditungsten decacarbonyl dianion. <i>Dalton Transactions</i> , 2020, 49, 9330-9335.	1.6	3
77	The "Hidden" Reductive [2+2+1] Cycloaddition Chemistry of 2-Phosphaethynolate Revealed by Reduction of a Th-OCP Linkage. <i>Angewandte Chemie</i> , 2021, 133, 1217-1222.	1.6	2
78	Mesoionic Carbene Complexes of Uranium(IV) and Thorium(IV). <i>Organometallics</i> , 2022, 41, 1353-1363.	1.1	2
79	A Series of Rare-Earth Mesoionic Carbene Complexes. <i>Chemistry - A European Journal</i> , 2022, , .	1.7	1